

ABSTRACT

A viscous material (4) is obtained by mixing an alloy magnetic powder, magnetized in advance, with a resin. The viscous material (4) thus obtained is applied to an upper surface of a center magnetic leg of an E-shaped core (2). A coil (3) and an I-shaped core are coupled to the E-shaped core (2). An orientation magnetic field is applied by a permanent magnet (5) while the resin is hardened. As a consequence, a bond magnet is obtained which is formed in tight contact with both of a pair of surfaces defining a magnetic gap between the E-shaped core (2) and the I-shaped core.